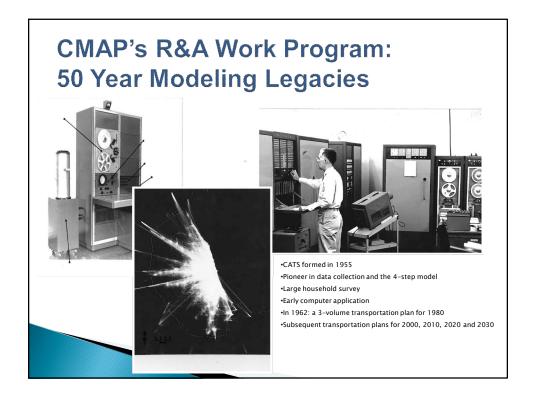
Guest Presentation

FHWA – TMIP Model Estimation Webinar Session 9 Kermit Wies, CMAP July 16, 2009



CMAP's Research and Analysis Work Program

Legacy - Vision - Goals



CMAP's R&A Work Program: Strategic Vision

authoritative source for regional data:

- Collection
- Exchange
- Dissemination
- Analysis
- •Evaluation and
- Modeling



CMAP's R&A Work Program: Goals for a new modeling framework

- Respond to changing policy priorities
- Assess adequacy of existing models
- Attend to needed improvements



Goals for a new modeling framework: Changing policy priorities

- Managing growth and land development
- Environmental stewardship
- Transportation choices
- Economic development











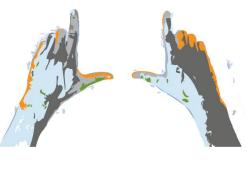
Goals for a new modeling framework: adequacy of existing models

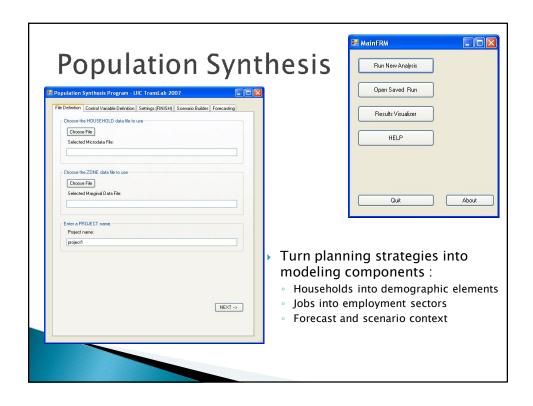
- Strategy and scenario responsiveness
- Robust representation of behavior and choice

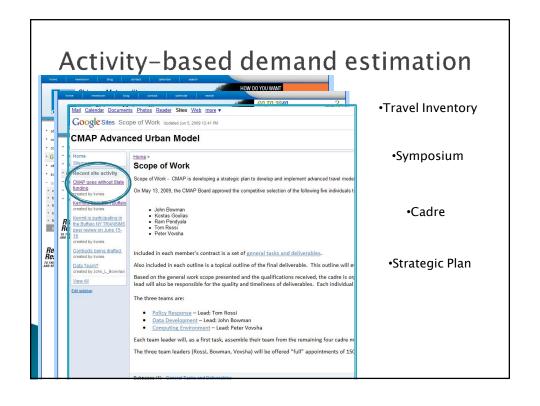
<u>Data Task</u>	<u>Primary Challenge</u>
Collection	Frequency
Exchange	Cooperation
Dissemination	Visualization
Analysis	Competency
Evaluation	Comprehensiveness
Modeling	Robustness

Goals for a new modeling framework: needed improvements

- Population synthesis
- Activity-based demand estimation
- Network microsimulation
- Land use prediction and feedback







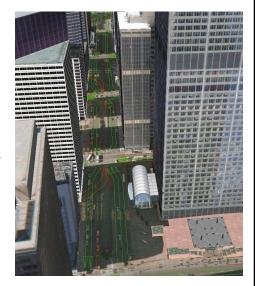
Network Microsimulation

TRANSIMS development needs:

Activity based demand interface

Transit, freight, aviation operations

Emergency and incident capabilities



Land Use Prediction and Feedback

Access product

Composite Utility of Transportation Performance

Land Value Index



CMAP's challenges

- **> Evolution of the MPO function**
- ▶ Role of data analysis and evaluation
- Creativity, flexibility and adaptability

